Daniel Massey

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Education

A.S. in Computer Science and Engineering for Transfer, Foothill College Sept 2023 – Dec 2025
GPA: 3.8
Relevant Coursework: Advanced Data Structures, Software Design (C++), Computer Architecture, OOP (C++/Python/Java), Discrete Math, Differential Equations, Linear Algebra, Physics, Circuit Theory I

Technical Skills

- Languages: C/C++, Python, Java, JavaScript, HTML, CSS, Swift
- Frameworks/Libraries: React, Node.js, Tailwind CSS, Pandas, NumPy, Matplotlib, PyTorch, TensorFlow
- Tools & Platforms: Git, GitHub, VS Code, SQL, MongoDB, REST APIs
- Hardware Skills: Circuit Design, Breadboarding, Oscilloscopes, Waveform Generators, Multimeters

Projects

FullStack Fitness Tracker
MERN Stack (MongoDB, Express.js, React.js, Node.js), Tailwind CSS
- Developed a full-stack fitness app with workout logging, nutrition tracking, and JWT-based authentication.
- Designed RESTful APIs for secure data handling; integrated personalized dashboards with progress visualization.
- Engineered advanced features (dynamic exercise tracking, macro nutrition analysis, etc.)

Console Minesweeper
Java, JavaFX, Eclipse
- Built a fully functional console-based Minesweeper game using OOP principles (inheritance, abstraction).
- Optimized gameplay logic with efficient data structures and algorithms.
- Enhanced user engagement by integrating JavaFX visuals for real-time feedback and improved interactivity.

Calculator Web Application
React, JavaScript
- Implemented accurate calculation logic with React state management.
- Designed an intuitive, mobile-responsive UI with operation history tracking.
- Increased usability by adding keyboard input support and error handling for invalid operations.

Leadership & Experiences

Secretary, Computer Science Club — Foothill College Oct 2023 – Present
- Led weekly workshops that covered key software topics from command-line tools to front-end development.
- Developed live coding demonstrations, working closely with students to apply concepts and troubleshoot.
- Managed club meetings and expanded outreach efforts, increasing attendance and member engagement.
- Projects: Built a Reddit clone, developed a Spotify visualization tool, and created a mobile budget manager app.

Workshop Lead, Data Science & AI Club Oct 2023 - Present
- Organized and led keynote learning sessions on data science and AI, teaching peers fundamental concepts.
- Introduced basic machine learning techniques and popular Python libraries (e.g., NumPy, pandas, scikit-learn).
- Guided students through basic AI algorithms, fostering hands-on learning and collaboration.

Member, Engineering Club Oct 2023 - June 2025
- Projects: RC Cars (designed wiring schematic, built, tested)
- Planned and initiated the design of battle bots, applying mechanical, electrical, and control system principles.
- Delivered demonstrations and walkthroughs of engineering projects to peers, showing the design process and outcomes.

Certifications

Machine Learning Crash Course, Google for Developers Present
- Completed Google's Machine Learning Crash Course (MLCC), gaining hands-on experience with regression, classification, and neural networks using TensorFlow.
- Applied ML best practices in data preparation, embedding, AutoML, and model fairness through interactive labs.
- Explored advanced concepts, including large language models (LLMs) and production ML system design.

CS50AI, Introduction to Artificial Intelligence with Python – HarvardX Aug 2025
- Completed HarvardX CS50AI covering core AI topics (Search Algorithms, Knowledge Representation, Reinforcement Learning)
- Built projects in Python applying concepts like Bayesian networks, neural networks, and natural language processing (NLP).
- Gained experience implementing AI-driven solutions using modern libraries and frameworks.